

### 9.3 Perform Reflections

geogebra

Conclusions about Reflections

If  $(a, b)$  is reflected in x-axis, its image is  $(a, -b)$

If  $(a, b)$  is reflected in y-axis, its image is  $(-a, b)$

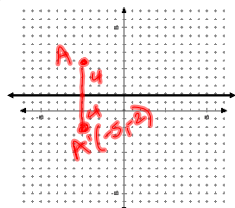
If  $(a, b)$  is reflected in  $y=x$ , its image is  $(b, a)$

If  $(a, b)$  is reflected in  $y=-x$ , its image is  $(-b, -a)$

Reflect a point in a vertical or horizontal line.

A(-5, 6)

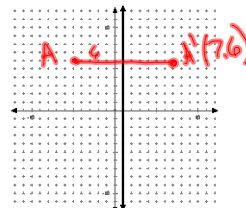
Reflect in the line  $y = 2$



Reflect a point in a vertical or horizontal line.

A(-5, 6)

Reflect in the line  $x = 1$



Reflect  $\triangle PQR$  in the x-axis.  
P(-3, 6) Q(-5, 3) R(-1, 2)

HW

p593 #s 3-5, 11

Attachments

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